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=> d hist

     (FILE 'HOME' ENTERED AT 08:34:56 ON 18 APR 2003)

     FILE 'REGISTRY' ENTERED AT 08:38:03 ON 18 APR 2003
L1              STRUCTURE UPLOADED
L2           50 S L1
L3         1154 S L1 FULL

     FILE 'CAPLUS' ENTERED AT 08:40:06 ON 18 APR 2003
L4          341 S L3
L5      2474278 S NUCLEIC(W)ACID OR DNA OR RNA OR PROTEIN? OR PEPTIDE? OR OLIGO
L6           26 S L4 AND L5
L7       700268 S FLUORESCENT OR RADIOLABEL OR LABEL? OR PROBE?
L8            1 S L6 AND L7
L9           26 S L4 AND L7
L10          23 S L9 AND PY<1999

     FILE 'STNGUIDE' ENTERED AT 08:43:35 ON 18 APR 2003

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L1 HAS NO ANSWERS
L1              STR
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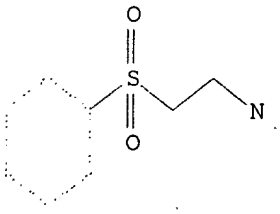


Structure attributes must be viewed using STN Express query preparation.

L10 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1997:483381 CAPLUS
DN 127:96534
TI Pyrazolines and hydroxypyridones in storage-stable brightener compositions
IN Rothe, Petra
PA Hoechst A.-G., Germany
SO Ger. Offen., 8 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 19546518	A1	19970619	DE 1995-19546518	19951213 <--
PRAI DE 1995-19546518		19951213		

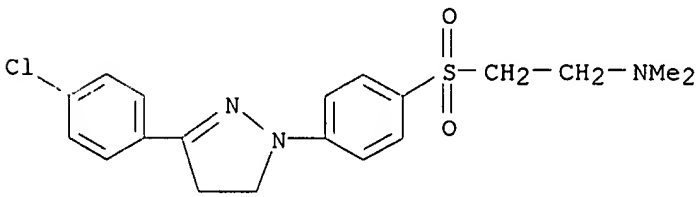
OS MARPAT 127:96534
PI DE 19546518 A1 **19970619**

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 19546518	A1	19970619	DE 1995-19546518	19951213 <--

IT **Fluorescent** brighteners
(pyrazolines and hydroxypyridones in storage-stable brightener compns.)
IT 29342-13-0 68890-66-4, Octopirox 85154-08-1 **133514-97-3**
192192-72-6 192192-73-7
RL: TEM (Technical or engineered material use); USES (Uses)
(pyrazolines and hydroxypyridones in storage-stable brightener compns.)
IT **133514-97-3**
RL: TEM (Technical or engineered material use); USES (Uses)
(pyrazolines and hydroxypyridones in storage-stable brightener compns.)
RN 133514-97-3 CAPLUS
CN Formic acid, compd. with 2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethylethanamine (1:1) (9CI) (CA INDEX NAME)

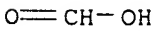
CM 1

CRN 10357-99-0
CMF C19 H22 Cl N3 O2 S



CM 2

CRN 64-18-6
CMF C H2 O2



L10 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1997:265443 CAPLUS
DN 126:252377

TI Storage-stable liquid optical brightener formulations and their use with polyacrylonitrile

IN Martini, Thomas; Rothe, Petra

PA Hoechst A.-G., Germany

SO Ger. Offen., 4 pp.
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	DE 19531265	A1	19970227	DE 1995-19531265	19950825	<--
	EP 765964	A2	19970402	EP 1996-113235	19960819	<--
	EP 765964	A3	19980325			
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL					
	JP 09118835	A2	19970506	JP 1996-221442	19960822	<--
	CA 2184032	AA	19970226	CA 1996-2184032	19960823	<--
	CN 1149091	A	19970507	CN 1996-111498	19960823	<--
	US 5904739	A	19990518	US 1996-702884	19960826	
PRAI	DE 1995-19531265		19950825			

PI DE 19531265 A1 **19970227**

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	DE 19531265	A1	19970227	DE 1995-19531265	19950825	<--
	EP 765964	A2	19970402	EP 1996-113235	19960819	<--
	EP 765964	A3	19980325			
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL					
	JP 09118835	A2	19970506	JP 1996-221442	19960822	<--
	CA 2184032	AA	19970226	CA 1996-2184032	19960823	<--
	CN 1149091	A	19970507	CN 1996-111498	19960823	<--
	US 5904739	A	19990518	US 1996-702884	19960826	

AB The formulations comprise a basic **fluorescent** whitener, a polar aprotic solvent, and an acid. Thus, a mixt. (pH 6) of 3-(4-chlorophenyl)-1-[4-[[2-(dimethylamino)ethyl]sulfonyl]phenyl]-4,5-dihydropyrazole 30, formic acid 10, and. . .

ST optical whitener acrylic fabric; acid stabilization whitener formulation; storage stability **fluorescent** whitener

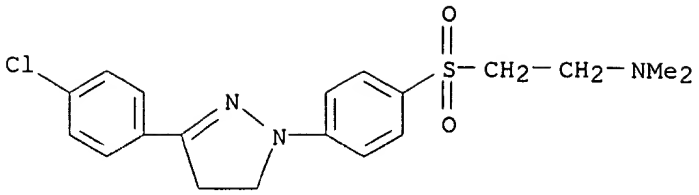
IT **Fluorescent** brighteners
(storage-stable liq. optical brightener formulations)

IT **10357-99-0**, 3-(4-Chlorophenyl)-1-[4-[[2-(dimethylamino)ethyl]sulfonyl]phenyl]-4,5-dihydro-1H-pyrazole
188616-95-7, 2-(6-Methoxy-2-benzoxazolyl)-1,3-dimethyl-5-(methylsulfonyl)benzimidazolium methyl sulfate
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(storage-stable liq. optical brightener formulations)

IT **10357-99-0**, 3-(4-Chlorophenyl)-1-[4-[[2-(dimethylamino)ethyl]sulfonyl]phenyl]-4,5-dihydro-1H-pyrazole
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(storage-stable liq. optical brightener formulations)

RN 10357-99-0 CAPLUS

CN Ethanamine, 2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L10 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1991:199667 CAPLUS
DN 114:199667
TI Preparation of benzamide derivatives as agents for the diagnosis and treatment of melanomas
IN Moreau, Marie France; Michelot, Josette; Veyre, Annie; Madelmont, Jean Claude; Godeneche, Denise; Labarre, Pierre; Parry, Daniel; Meyniel, Gaston
PA Institut National de la Sante et de la Recherche Medicale (INSERM), Fr.; Compagnie Oris Industrie S. A.
SO PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 9009170	A2	19900823	WO 1990-FR107	19900214	<--
	WO 9009170	A3	19901101			
	W: AU, JP, US					
	RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE					
	FR 2642972	A1	19900817	FR 1989-1898	19890214	<--
	FR 2642972	B1	19940805			
	AU 9051913	A1	19900905	AU 1990-51913	19900214	<--
	EP 458886	A1	19911204	EP 1990-903857	19900214	<--
	EP 458886	B1	19931013			
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE					
	JP 04506057	T2	19921022	JP 1990-504230	19900214	<--
	JP 2846459	B2	19990113			
	AT 95693	E	19931015	AT 1990-903857	19900214	<--
	US 5190741	A	19930302	US 1991-741481	19910806	<--
PRAI	FR 1989-1898		19890214			
	EP 1990-903857		19900214			
	WO 1990-FR107		19900214			

OS CASREACT 114:199667; MARPAT 114:199667
PI WO 9009170 A2 **19900823**

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 9009170	A2	19900823	WO 1990-FR107	19900214	<--
	WO 9009170	A3	19901101			
	W: AU, JP, US					
	RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE					
	FR 2642972	A1	19900817	FR 1989-1898	19890214	<--
	FR 2642972	B1	19940805			
	AU 9051913	A1	19900905	AU 1990-51913	19900214	<--
	EP 458886	A1	19911204	EP 1990-903857	19900214	<--
	EP 458886	B1	19931013			
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE					
	JP 04506057	T2	19921022	JP 1990-504230	19900214	<--
	JP 2846459	B2	19990113			
	AT 95693	E	19931015	AT 1990-903857	19900214	<--
	US 5190741	A	19930302	US 1991-741481	19910806	<--

AB . . . = 0, 1-3) and I salts are prepd. as agents for the diagnosis and

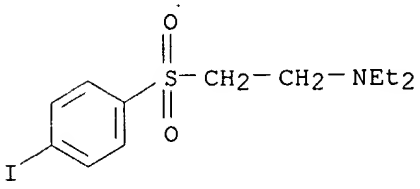
treatment of melanomas. I may be **labeled** with 123I, 125I, 131I, 75Br, 77Br, 18F, 11C, 13C, or 19F. The reaction of N,N-diethylethylenediamine with 4-iodobenzoyl chloride in THF. . . .

IT 7782-41-4, Fluorine-19, biological studies 10043-66-0, Iodine-131, biological studies 13981-56-1, Fluorine-18, biological studies 14158-31-7, Iodine-125, biological studies 14333-33-6, Carbon-11, biological studies 14762-74-4, Carbon-13, biological studies 14809-47-3, Bromine-75, biological studies 15715-08-9, Iodine-123, biological studies 15765-39-6, Bromine-77, biological studies
RL: BIOL (Biological study)
(**labeling** by, of benzamide deriv., as agent for diagnosis and treatment of melanomas)

IT 133639-97-1P 133639-98-2P 133639-99-3P 133640-00-3P 133640-01-4P
133640-02-5P 133640-03-6P 133640-04-7P 133640-05-8P 133640-06-9P
133640-07-0P 133640-08-1P 133640-09-2P 133640-10-5P
133640-11-6P 133656-18-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as agent for diagnosis and treatment of melanomas)

IT **133640-11-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as agent for diagnosis and treatment of melanomas)

RN 133640-11-6 CAPLUS
CN Ethanamine, N,N-diethyl-2-[(4-iodophenyl)sulfonyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1991:188036 CAPLUS
DN 114:188036
TI Aqueous formulations containing pyrazoline-based optical brighteners with resistance to discoloration during storage
IN Kuehl, Eickhard
PA Ciba-Geigy A.-G., Switz.
SO Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 396503	A2	19901107	EP 1990-810321	19900424 <--
	EP 396503	A3	19910130		
	EP 396503	B1	19951018		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AT 129283	E	19951115	AT 1990-810321	19900424 <--
	ES 2078331	T3	19951216	ES 1990-810321	19900424 <--
	US 5219491	A	19930615	US 1990-514628	19900425 <--
	CA 2015714	AA	19901102	CA 1990-2015714	19900430 <--
	BR 9002009	A	19910813	BR 1990-2009	19900430 <--
	JP 02308865	A2	19901221	JP 1990-115356	19900502 <--
	JP 2842929	B2	19990106		
PRAI	CH 1989-1664		19890502		

OS MARPAT 114:188036
PI EP 396503 A2 **19901107**

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	EP 396503	A2	19901107	EP 1990-810321	19900424	<--
	EP 396503	A3	19910130			
	EP 396503	B1	19951018			
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE					
	AT 129283	E	19951115	AT 1990-810321	19900424	<--
	ES 2078331	T3	19951216	ES 1990-810321	19900424	<--
	US 5219491	A	19930615	US 1990-514628	19900425	<--
	CA 2015714	AA	19901102	CA 1990-2015714	19900430	<--
	BR 9002009	A	19910813	BR 1990-2009	19900430	<--
	JP 02308865	A2	19901221	JP 1990-115356	19900502	<--
	JP 2842929	B2	19990106			

AB . . . deriv. I (R1 = H, Me; R2, R3 = aryl, substituted aryl; n = 0-1; X- = colorless anion) as **fluorescent** brightener and 0.1-10 mol % reducing S compd. which inhibits yellowing during storage. An aq. soln. contg. 18% I [R1. . .

ST **fluorescent** brightener pyrazoline soln stability; discoloration resistance pyrazoline brightener; yellowing resistance pyrazoline brightener; reducing stabilizer pyrazoline brightener; dithionite stabilizer pyrazoline brightener;. . .

IT **Fluorescent** brighteners
(pyrazoline derivs., aq. solns. of, discoloration inhibitors for)

IT 60317-15-9 85154-08-1 **106359-93-7** 133514-96-2
133514-97-3
RL: USES (Uses)
(**fluorescent** brighteners, aq. solns. of, yellowing inhibitors for)

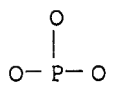
IT **106359-93-7**
RL: USES (Uses)
(**fluorescent** brighteners, aq. solns. of, yellowing inhibitors for)

RN 106359-93-7 CAPLUS

CN Ethanamine, 2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethyl-, phosphonate (1:1) (9CI) (CA INDEX NAME)

CM 1

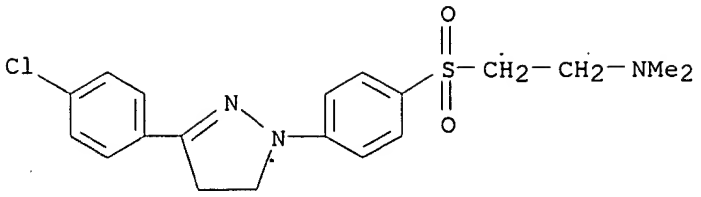
CRN 13598-36-2
CMF H3 O3 P



*** FRAGMENT DIAGRAM IS INCOMPLETE ***

CM 2

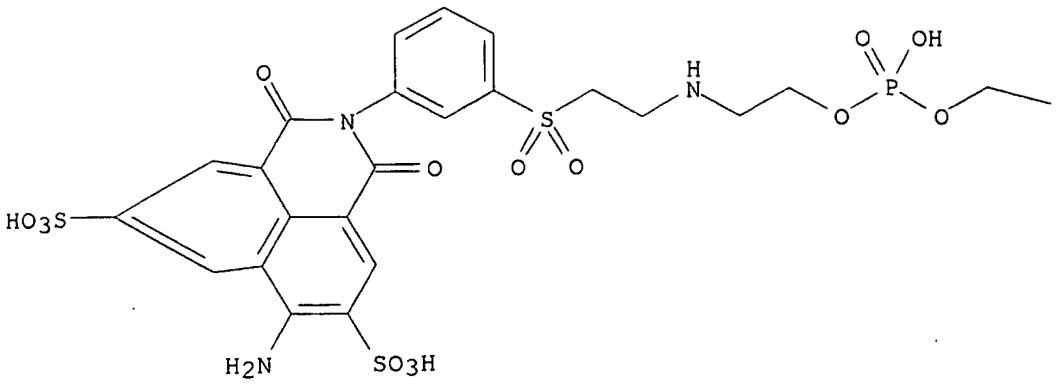
CRN 10357-99-0
CMF C19 H22 Cl N3 O2 S



L10 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1989:436184 CAPLUS
DN 111:36184
TI Synthesis and characterization of **fluorescent** Lucifer yellow-lipid conjugates
AU Nothnagel, Eugene A.
CS Dep. Bot. Plant Sci., Univ. California, Riverside, CA, 92521, USA
SO Biochimica et Biophysica Acta (**1989**), 980(2), 209-19
CODEN: BBACAQ; ISSN: 0006-3002
DT Journal
LA English
TI Synthesis and characterization of **fluorescent** Lucifer yellow-lipid conjugates
SO Biochimica et Biophysica Acta (**1989**), 980(2), 209-19
CODEN: BBACAQ; ISSN: 0006-3002
AB The syntheses of **fluorescent** lipid **probes** composed of Lucifer Yellow dyes linked to either cholesterol or phospholipids are described. The spectral properties of these **probes** are characterized, and the **probes** are evaluated for use with model membranes and with live animal and plant cells. Of the **probes** synthesized, the cholesterol deriv. is the easiest to prep. and appears to be the most useful because it readily **labels** the plasma membrane of live cells and maintains a high ratio of cell surface-to-cytoplasmic fluorescence.
ST Lucifer Yellow lipid **probe** prepn; cholesterol Lucifer Yellow **probe** prepn; phospholipid Lucifer Yellow **probe** prepn; membrane Lucifer Yellow lipid **fluorescent probe**
IT Cell membrane
(Lucifer Yellow-lipid conjugates as **fluorescent probe** for)
IT Erythrocyte
Protoplast and Spheroplast
(membranes of, Lucifer Yellow-cholesterol conjugates as **fluorescent probe** for)
IT **121395-73-1P 121395-74-2P 121395-75-3P**
121415-65-4P
RL: PREP (Preparation)
(prepn. of, as **fluorescent** membrane **probe**)
IT **121395-73-1P**
RL: PREP (Preparation)
(prepn. of, as **fluorescent** membrane **probe**)
RN 121395-73-1 CAPLUS
CN Dodecanoic acid, 1-[9-[[3-(6-amino-1,3-dioxo-5,8-disulfo-1H-benz[de]isoquinolin-2(3H)-yl)phenyl]sulfonyl]-3-hydroxy-3-oxido-2,4-dioxa-7-aza-3-phosphanon-1-yl]-1,2-ethanediyl ester, dilithium salt, (R)- (9CI) (CA INDEX NAME)

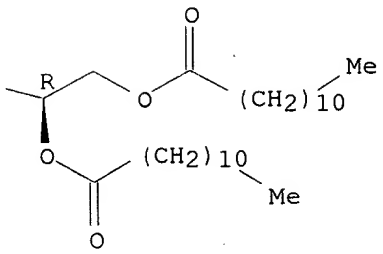
Absolute stereochemistry.

PAGE 1-A



●2 Li

PAGE 1-B



L10 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1989:173544 CAPLUS
DN 110:173544
TI The synthesis of a conjugate of progesterone with Lucifer Yellow VS: a potential **probe** for fluoroimmunoassay of steroids
AU Kirk, David N.; Miller, Barry W.
CS Chem. Dep., Queen Mary Coll., London, E1 4NS, UK
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (**1988**), (11), 2979-82
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
OS CASREACT 110:173544
TI The synthesis of a conjugate of progesterone with Lucifer Yellow VS: a potential **probe** for fluoroimmunoassay of steroids
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (**1988**), (11), 2979-82
CODEN: JCPRB4; ISSN: 0300-922X
IT Steroids, biological studies
RL: BIOL (Biological study)
(fluorescence immunoassay of, conjugate of progesterone with Lucifer Yellow VS as **probe** for)
IT Immunochemical analysis
(fluorescence immunoassay, of steroids, conjugate of progesterone with

Lucifer Yellow VS as **probe** for)

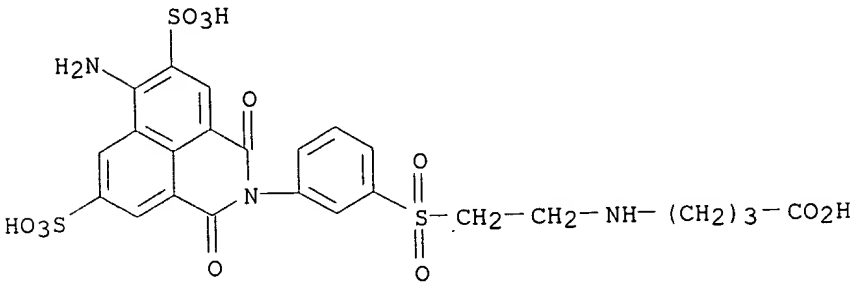
IT **120002-65-5P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and fluorescence of)

IT 119991-94-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as **probe** for fluorescence immunoassay of steroids)

IT **120002-65-5P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and fluorescence of)

RN 120002-65-5 CAPLUS

CN Butanoic acid, 4-[[2-[[3-(6-amino-1,3-dioxo-5,8-disulfo-1H-benz[de]isoquinolin-2(3H)-yl)phenyl]sulfonyl]ethyl]amino]-, dilithium salt (9CI) (CA INDEX NAME)



L10 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1989:97019 CAPLUS

DN 110:97019

TI Brightening of anionically modified polyester fibers

AU Martini, T.

CS Dtsch. Fachverlag GmbH, Frankfurt/Main, D-6000/1, Fed. Rep. Ger.

SO Chemiefasern/Textilindustrie (**1988**), 38(9), 827-8, 830
CODEN: CFTXAJ; ISSN: 0340-3343

DT Journal

LA German

SO Chemiefasern/Textilindustrie (**1988**), 38(9), 827-8, 830
CODEN: CFTXAJ; ISSN: 0340-3343

AB Polyester fibers contg. sulfoisophthalate groups were successfully brightened by chlorite-resistant **fluorescent** brighteners based on benzofuranylbenzimidazole or benzoxazolylbenzimidazole, but could not be brightened by pyrazoline-based brighteners, which were destroyed on the fiber.. . .

ST cationic **fluorescent** brightener polyester fiber; disperse **fluorescent** brightener polyester fiber; acrylic fiber cationic **fluorescent** brightener; sulfoisophthalate modified polyester fiber brightening; benzofuranylbenzimidazole **fluorescent** brightener polyester fiber; benzoxazolylbenzimidazole **fluorescent** brightener polyester fiber

IT Acrylic fibers, uses and miscellaneous
RL: USES (Uses)
(**fluorescent** brightening of, cationic brighteners for, lightfastness of)

IT **Fluorescent** brighteners

(cationic, for anionically modified polyester fibers, lightfastness and whitening in relation to)

IT **Fluorescent** brighteners
(nonionic, for anionically modified polyester fibers, lightfastness and whitening in relation to)

IT Polyester fibers, uses and miscellaneous
RL: USES (Uses)
(sulfoisophthalate group-contg., **fluorescent** brightening of, cationic and disperse brighteners for, lightfastness of)

IT 58449-88-0, C.I. **Fluorescent** Brightener 199
RL: USES (Uses)
(anionically modified polyester fibers treated with, whiteness of)

IT **119314-22-6**, C.I. **Fluorescent** Brightener 386
RL: USES (Uses)
(instability of, in presence of anionically modified polyester fibers)

IT 61951-71-1, C.I. **Fluorescent** Brightener 257 95078-19-6, C.I. **Fluorescent** Brightener 363 119314-19-1, C.I. **Fluorescent** Brightener 365 119314-20-4, C.I. **Fluorescent** Brightener 373 119314-21-5, C.I. **Fluorescent** Brightener 381
RL: USES (Uses)
(lightfastness of, on anionically modified polyester fibers and polyacrylonitrile fibers)

IT 12224-35-0, C.I. **Fluorescent** Brightener 179 119314-48-6, Hostalux ERC 119314-49-7, Hostalux ETB 119314-50-0, Hostalux ETR
RL: USES (Uses)
(lightfastness of, on anionically modified polyester fibers and unmodified polyester fibers)

IT **119314-22-6**, C.I. **Fluorescent** Brightener 386
RL: USES (Uses)
(instability of, in presence of anionically modified polyester fibers)

RN 119314-22-6 CAPLUS

L10 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1988:77136 CAPLUS
DN 108:77136
TI Pyrazoline **fluorescent** brighteners
PA Ciba-Geigy A.-G., Switz.
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62132865	A2	19870616	JP 1986-287861	19861204 <--
	JP 06025130	B4	19940406		
	EP 234176	A1	19870902	EP 1986-810548	19861128 <--
	EP 234176	B1	19910515		
	EP 234176	B2	19960522		
	R: CH, DE, ES, FR, GB, IT, LI				
	US 4816590	A	19890328	US 1986-935911	19861128 <--
	ES 2039207	T3	19930916	ES 1986-810548	19861128 <--
	BR 8605955	A	19870915	BR 1986-5955	19861204 <--
	US 5308545	A	19940503	US 1992-983343	19921130 <--
PRAI	CH 1985-5163		19851204		
	CH 1986-1770		19860430		
	US 1986-935911		19861128		
	US 1988-282537		19881212		
	US 1990-630710		19901220		
	US 1992-825675		19920127		

TI Pyrazoline **fluorescent** brighteners
PI JP 62132865 A2 **19870616** Showa

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	JP 62132865	A2	19870616	JP 1986-287861	19861204	<--
	JP 06025130	B4	19940406			
	EP 234176	A1	19870902	EP 1986-810548	19861128	<--
	EP 234176	B1	19910515			
	EP 234176	B2	19960522			
	R: CH, DE, ES, FR, GB, IT, LI					
	US 4816590	A	19890328	US 1986-935911	19861128	<--
	ES 2039207	T3	19930916	ES 1986-810548	19861128	<--
	BR 8605955	A	19870915	BR 1986-5955	19861204	<--
	US 5308545	A	19940503	US 1992-983343	19921130	<--

ST pyrazoline **fluorescent** brightener acrylic fiber; acetate fiber pyrazoline **fluorescent** brightener; polyamide fiber pyrazoline **fluorescent** brightener

IT Acetate fibers, uses and miscellaneous
Acrylic fibers, uses and miscellaneous
Polyamide fibers, uses and miscellaneous
RL: USES (Uses)
(**fluorescent** brighteners for, pyrazoline compds. as)

IT **Fluorescent** brighteners
(pyrazoline derivs., for synthetic fibers)

IT Quaternary ammonium compounds, uses and miscellaneous
RL: USES (Uses)
(pyrazoline-based, **fluorescent** brighteners, for synthetic fibers)

IT 9004-35-7
RL: USES (Uses)
(acetate fibers, **fluorescent** brighteners for, pyrazoline compds. as)

IT **10357-99-0 10358-02-8 10358-02-8D**, salts **13221-36-8D**, salts **106359-93-7 112826-18-3 112826-19-4 112826-21-8 112826-23-0 112826-24-1 112826-24-1D**, salts **112826-25-2 112826-26-3**
RL: USES (Uses)
(**fluorescent** brighteners, for synthetic fibers)

IT **112826-16-1P**
RL: PREP (Preparation)
(manuf. and conversion to hydrazine derivs.)

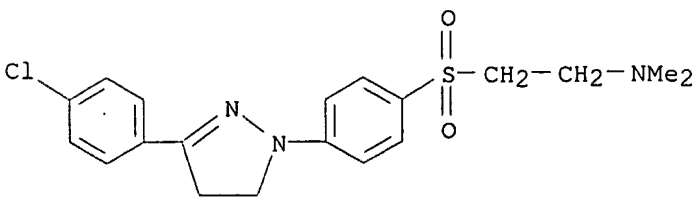
IT 109-83-1, 2-(Methylamino)ethanol **112826-15-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (vinylsulfonylphenyl)pyrazoline derivs.)

IT **112826-14-9 112826-17-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chlorobenzoyl chloride deriv.)

IT **10357-99-0**
RL: USES (Uses)
(**fluorescent** brighteners, for synthetic fibers)

RN 10357-99-0 CAPLUS

CN Ethanamine, 2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L10 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1987:98993 CAPLUS
DN 106:98993
TI **Fluorescent** 4-amino-3,6-disulfonatonaphthalimide derivatives and their use in fluorescence-polarization immunoassays
IN Cittanova, Nicole; Desfosses, Bernard; Christeff, Nicolas; Rajkowski, Krzysztof
PA Centre National de la Recherche Scientifique, Fr.
SO Fr. Demande, 21 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2574184	A1	19860606	FR 1984-18311	19841130 <--
	FR 2574184	B1	19880422		
	EP 187076	A1	19860709	EP 1985-402360	19851129 <--
	EP 187076	B1	19910918		

R: DE, FR, GB, NL

PRAI FR 1984-18311 19841130

TI **Fluorescent** 4-amino-3,6-disulfonatonaphthalimide derivatives and their use in fluorescence-polarization immunoassays

PI FR 2574184 A1 **19860606**

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2574184	A1	19860606	FR 1984-18311	19841130 <--
	FR 2574184	B1	19880422		
	EP 187076	A1	19860709	EP 1985-402360	19851129 <--
	EP 187076	B1	19910918		

R: DE, FR, GB, NL

AB . . . mol. I (M+ = cation, esp. Li+; R = a group derived from a hapten or antigen) is a stable **fluorescent label** for use in title assays. The hapten or antigen may be attached through -NHCONHNH2 (II) or m-vinylsulfonylphenyl directly, or also through 1,7-diaminoheptane or cysteamine. Testosterone was **labeled** with 4-amino-N-(hydrazinocarbonylamino)-3,6-naphthalimide Li disulfonate. The **fluorescent** product was purified by TLC on silica gel and HPLC and used in a fluorescence-polarization immunoassay (incident light .apprx.425 nm;. . .

IT Antigens
Haptens
RL: ANST (Analytical study)
(aminodisulfonatonaphthalimide derivs. **labeling** of, for fluorescence polarization immunoassay)

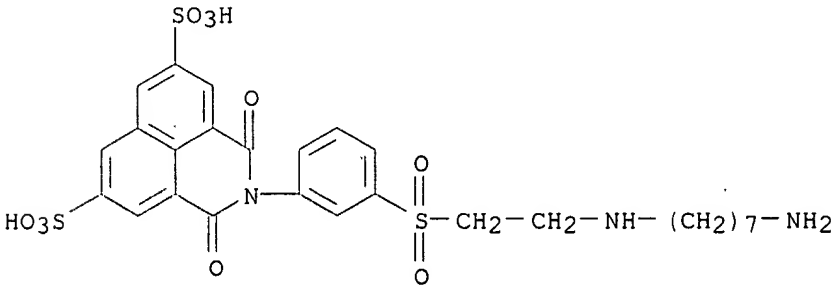
IT Immunochemical analysis
(fluorescence-polarization immunoassay, aminodisulfonatonaphthalimide derivs. as **labels** in, for haptens and antigens detn.)

IT 37654-41-4
RL: ANST (Analytical study)
(aminodisulfonatonaphthalimide deriv. **labeling** of, for fluorescence polarization immunoassay)

IT 107014-62-0D, derivs., salts
RL: ANST (Analytical study)
(antigen and hapten **labeling** by, for fluorescence polarization immunoassay)

IT 60-23-1, Cysteamine 646-19-5, 1,7-Diaminoheptane
RL: MOA (Modifier or additive use); USES (Uses)
(crosslinking agent, in hapten and antigen **labeling** by aminodisulfonatonaphthalimide derivs. for fluorescence polarization immunoassay)

IT 50-27-1, Estriol 58-22-0, Testosterone
RL: ANT (Analyte); ANST (Analytical study)
(detn. of, by fluorescence polarization immunoassay, aminodisulfonatonaphthalimide derivs. as **labels** for)
IT 59837-00-2D, salts 107014-63-1D, salts 107014-64-2D, salts
RL: ANST (Analytical study)
(**fluorescent** reagent for **labeling** haptens and antigens for fluorescence polarization immunoassay)
IT 10190-93-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and **labeling** with aminodisulfonatonaphthalimide deriv. for fluorescence polarization immunoassay)
IT 75585-79-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and **labeling** with aminodisulfonatonaphthalimide deriv., for fluorescence polarization immunoassay)
IT **107014-68-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction with testosterone deriv.)
IT 106886-84-4P 107014-65-3P **107014-67-5P** 107039-43-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, for fluorescence polarization immunoassay)
IT **107014-68-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction with testosterone deriv.)
RN 107014-68-6 CAPLUS
CN 1H-Benz[de]isoquinoline-5,8-disulfonic acid, 2-[3-[[2-[(7-aminoheptyl)amino]ethyl]sulfonyl]phenyl]-2,3-dihydro-1,3-dioxo- (9CI) (CA INDEX NAME)



L10 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1987:96274 CAPLUS
DN 106:96274
TI The use of disulfonatonaphthalimide **fluorescent** dyes for the fluorescence polarization immunoassay of steroids
AU Desfosses, B.; Urios, P.; Christeff, N.; Rajkowski, K. M.; Cittanova, N.
CS Fac. Med., Paris, F-75270, Fr.
SO Analytical Biochemistry (**1986**), 159(1), 179-86
CODEN: ANBCA2; ISSN: 0003-2697
DT Journal
LA English
TI The use of disulfonatonaphthalimide **fluorescent** dyes for the fluorescence polarization immunoassay of steroids
SO Analytical Biochemistry (**1986**), 159(1), 179-86
CODEN: ANBCA2; ISSN: 0003-2697
AB A series of **fluorescent** disulfonatonaphthalimide derivs. of

testosterone [58-22-0] and estriol [50-27-1] were synthesized and their **fluorescent** properties investigated. The fluorescence lifetimes of these derivs. were higher than that of the unreacted **fluorescent** dye, whereas the quantum yields were of the same order. The compds. were therefore compared in terms of their utilizability. . . compd. is discussed in terms of the position, type, and length of the chem. bridge linking the steroid to the **fluorescent** dye. It is proposed that these **fluorescent labels** are highly appropriate to this type of immunoassay.

IT 106867-21-4P 106867-22-5P 106886-84-4P **106906-73-4P** 107014-65-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and **fluorescent** properties of, for polarization immunoassay)

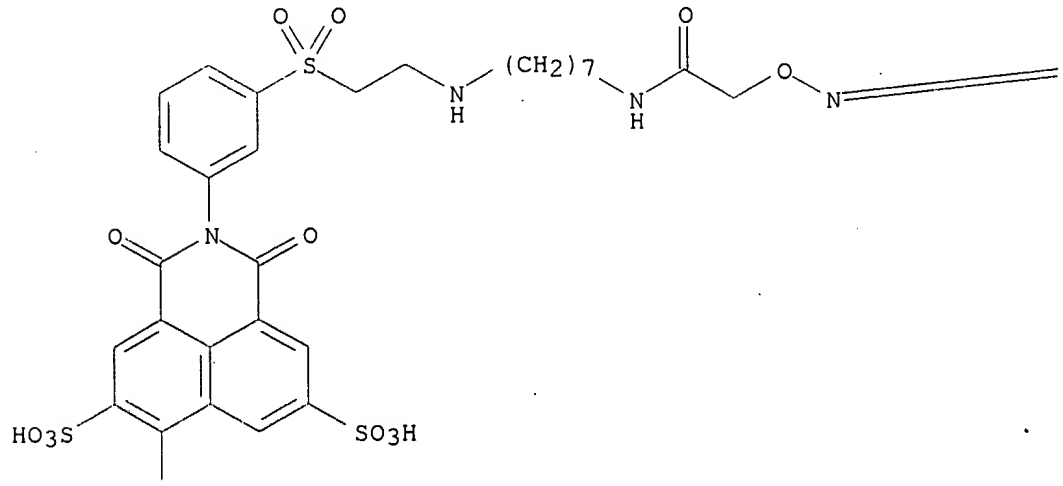
IT **106906-73-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and **fluorescent** properties of, for polarization immunoassay)

RN 106906-73-4 CAPLUS

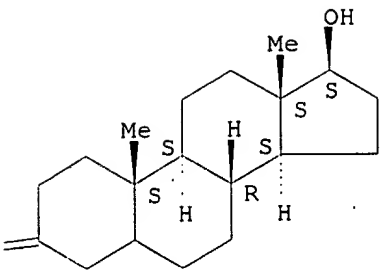
CN 1H-Benz[de]isoquinoline-5,8-disulfonic acid, 6-amino-2,3-dihydro-2-[3-[[2-[[7-[[[[[(17.beta.)-17-hydroxyandrostan-3-ylidene]amino]oxy]acetyl]amino]heptyl]amino]ethyl]sulfonyl]phenyl]-1,3-dioxo-, dilithium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

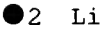
PAGE 1-A



PAGE 1-B

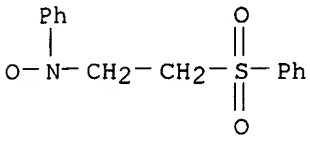


PAGE 2-A

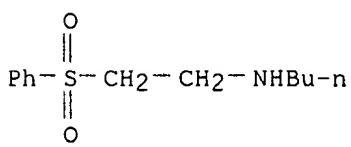


L10 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1985:203335 CAPLUS
DN 102:203335
TI Aminyl oxides (nitroxides). XXXVII. Formation and ESR spectroscopic study of vinylaminyl oxides with electron-acceptor substituents and of related radicals
AU Aurich, Hans Guenter; Schmidt, Michael; Schwerzel, Thomas
CS Fachbereich Chem., Univ. Marburg, Marburg/Lahn, D-3550, Fed. Rep. Ger.
SO Chemische Berichte (**1985**), 118(3), 1086-104
CODEN: CHBEAM; ISSN: 0009-2940
DT Journal
LA German
OS CASREACT 102:203335
SO Chemische Berichte (**1985**), 118(3), 1086-104
CODEN: CHBEAM; ISSN: 0009-2940
IT 40936-13-8P 55990-96-0P 71569-27-2P 71602-19-2P 72425-00-4P
92447-54-6P 92447-55-7P 96406-26-7P **96406-27-8P**
96406-28-9P 96406-29-0P 96406-30-3P 96406-31-4P 96406-32-5P
96406-33-6P 96406-34-7P 96422-93-4P 96422-94-5P 96422-95-6P
96422-96-7P 96422-97-8P 96422-98-9P 96422-99-0P 96423-00-6P
96423-01-7P 96423-02-8P 96423-03-9P 96423-04-0P 96423-05-1P
96423-06-2P 96423-07-3P 96423-08-4P 96423-09-5P 96423-10-8P
96423-11-9P 96423-12-0P 96423-13-1P 96423-14-2P 96423-15-3P
96423-16-4P 96423-17-5P **96423-18-6P** 96423-19-7P
96423-20-0P 96423-21-1P 96423-22-2P 96423-23-3P 96423-24-4P
96423-25-5P 96423-26-6P 96423-27-7P 96423-28-8P 96423-29-9P
96423-30-2P 96423-31-3P 96423-32-4P 96423-33-5P 96423-34-6P
96423-35-7P
RL: PRP (Properties); FORM (Formation, nonpreparative); PREP (Preparation)
(generation and ESR of)
IT 52266-40-7P 95503-43-8P 96406-09-6P 96406-12-1P 96406-13-2P
96406-35-8P 96406-36-9P 96406-38-1P 96406-39-2P
96406-40-5P 96406-41-6P 96406-42-7P 96406-43-8P 96406-44-9P
96406-45-0P 96406-46-1P 96406-47-2P 96406-48-3P 96406-49-4P
96406-50-7P 96406-51-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and oxidn. of)
IT 98-09-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with N-**labeled** hydroxylamine)
IT **96406-27-8P**
RL: PRP (Properties); FORM (Formation, nonpreparative); PREP (Preparation)
(generation and ESR of)
RN 96406-27-8 CAPLUS
CN Nitroxide, phenyl 2-(phenylsulfonyl)ethyl (9CI) (CA INDEX NAME)



L10 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1985:148457 CAPLUS
DN 102:148457
TI **Fluorescent** and nonfluorescent aryl vinyl sulfones - reagents suitable for protection and detection of thiol functions
AU Horner, Leopold; Lindel, Hans
CS Inst. Org. Chem., Univ. Mainz, Mainz, D-6500, Fed. Rep. Ger.
SO Liebigs Annalen der Chemie (**1985**), (1), 22-33
CODEN: LACHDL; ISSN: 0170-2041
DT Journal
LA German
OS CASREACT 102:148457
TI **Fluorescent** and nonfluorescent aryl vinyl sulfones - reagents suitable for protection and detection of thiol functions
SO Liebigs Annalen der Chemie (**1985**), (1), 22-33
CODEN: LACHDL; ISSN: 0170-2041
AB . . . of different (arylsulfonyl)ethyl protective groups in the same mol. is possible by using different kinetic steering factors. Application of the **fluorescent** vinyl sulfones I (R = 4-C6H4CO2Et) and II (R = NMe2, OMe) opens new fields for anal. and synthesis. SH-selective. .
ST thiol addn vinyl sulfone kinetics; protection thiol vinyl sulfone; **fluorescent** vinyl sulfone addn thiol; orthogonal protective group vinyl sulfone
IT 95535-42-5P 95535-45-8P 95535-46-9P 95535-47-0P **95535-48-1P** 95535-49-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
IT **95535-48-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 95535-48-1 CAPLUS
CN 1-Butanamine, N-[2-(phenylsulfonyl)ethyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1978:512429 CAPLUS
DN 89:112429
TI 1-[4'-(.beta.-Acylaminoethylsulfonyl)phenyl]-3-aryl-.DELTA.2-pyrazolines useful as **fluorescent** whiteners
IN Schinzel, Erich; Bildstein, Sigfried; Lebkuecher, Karl Heinz
PA Hoechst A.-G., Fed. Rep. Ger.
SO Ger., 8 pp.
CODEN: GWXXAW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	DE 1670722	A	19720309	DE 1966-F49805	19660728	<--
	DE 1670722	B2	19780503			
	NL 6710135	A	19680129	NL 1967-10135	19670721	<--
	GB 1180793	A	19700211	GB 1967-1180793	19670726	<--
	AT 282535	B	19700625	AT 1967-6957	19670726	<--
	CH 501700	A	19710115	CH 1967-501700	19670726	<--
	CH 6710623	A4	19710215	CH 1967-1062367	19670726	<--
	CH 508770	A	19710615	CH 1967-508770	19670726	<--
	DK 128280	B	19740401	DK 1967-3881	19670727	<--
	BE 701986	A	19680129	BE 1967-701986	19670728	<--
	NL 143566	B	19741015	NL 1970-19008	19701230	<--
PRAI	DE 1966-F49805		19660728			
	NL 1967-10135		19670721			

TI 1-[4'-(.beta.-Acylaminoethylsulfonyl)phenyl]-3-aryl-.DELTA.2-pyrazolines useful as **fluorescent** whiteners
PI DE 1670722 **19780503**

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	DE 1670722	A	19720309	DE 1966-F49805	19660728	<--
	DE 1670722	B2	19780503			
	NL 6710135	A	19680129	NL 1967-10135	19670721	<--
	GB 1180793	A	19700211	GB 1967-1180793	19670726	<--
	AT 282535	B	19700625	AT 1967-6957	19670726	<--
	CH 501700	A	19710115	CH 1967-501700	19670726	<--
	CH 6710623	A4	19710215	CH 1967-1062367	19670726	<--
	CH 508770	A	19710615	CH 1967-508770	19670726	<--
	DK 128280	B	19740401	DK 1967-3881	19670727	<--
	BE 701986	A	19680129	BE 1967-701986	19670728	<--
	NL 143566	B	19741015	NL 1970-19008	19701230	<--

AB **Fluorescent** whiteners (I; R = H, Cl; R1 = H, C1-18 alkyl, substituted Ph or benzyl; R2 = optionally substituted lower. . . was heated to a melt to give I (R = Cl, R1 = H, R2 = Me, Z = CO) [**24032-65-3**].
ST acetate fiber **fluorescent** brightener; acrylic fiber **fluorescent** brightener; polyamide fiber **fluorescent** brightener; wool fiber **fluorescent** brightener; acylaminoethylsulfonylphenylpyrazoline **fluorescent** brightener; pyrazoline **fluorescent** brightener; phenylpyrazoline **fluorescent** brightener
IT **Fluorescent** brighteners
([[[(acylamino)ethyl]sulfonyl]phenyl]phenylpyrazolines, for natural and synthetic fibers and PVC)
IT Acetate fibers, uses and miscellaneous
Acrylic fibers, uses and miscellaneous
Polyamide fibers, uses and miscellaneous
RL: USES (Uses)
(**fluorescent** brighteners for, [[[(acylamino)ethyl]sulfonyl]phenyl]phenylpyrazolines as)

IT **24032-64-2P 24032-65-3P 24032-66-4P**
24032-67-5P 24032-69-7P 24032-70-0P
24032-71-1P 24032-72-2P 24032-73-3P
24032-75-5P 24032-76-6P 24032-77-7P
24032-78-8P 24032-79-9P 24032-80-2P
24032-81-3P 24032-82-4P 24033-78-1P
24033-79-2P 24067-87-6P 24100-43-4P
RL: IMF (Industrial manufacture); PREP (Preparation)
(**fluorescent** brightener, manuf. of)

IT **24032-68-6P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(**fluorescent** brightener, prepn. of)

IT 9002-86-2
RL: USES (Uses)
(**fluorescent** brighteners for, pyrazoline derivs. as)

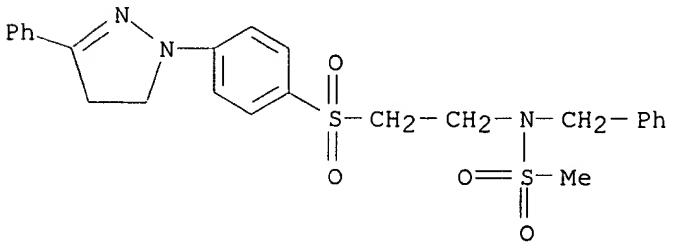
IT **22987-12-8P 24033-77-0P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of, as **fluorescent** brightener)

IT **10358-08-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with methoxybenzoyl chloride)

IT **24032-64-2P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(**fluorescent** brightener, manuf. of)

RN 24032-64-2 CAPLUS

CN Methanesulfonamide, N-[2-[[4-(4,5-dihydro-3-phenyl-1H-pyrazol-1-yl)phenyl]sulfonyl]ethyl]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1977:569241 CAPLUS

DN 87:169241

TI Determination of the vapor pressure of **fluorescent** whitening agents. Part 2

AU Eibl, Johannes; Medilek, Peter; Kleemann, Rita

CS Gesamthochsch. Wuppertal, Wuppertal, Fed. Rep. Ger.

SO Melliand Textilberichte International (**1977**), 58(10), 850-1
CODEN: MTXIAW; ISSN: 0375-9350

DT Journal

LA German

TI Determination of the vapor pressure of **fluorescent** whitening agents. Part 2

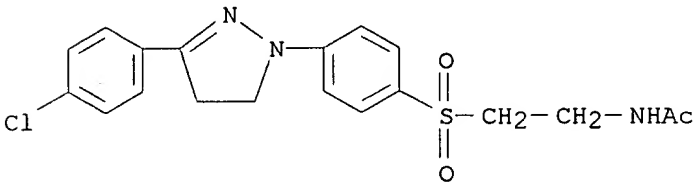
SO Melliand Textilberichte International (**1977**), 58(10), 850-1
CODEN: MTXIAW; ISSN: 0375-9350

AB The vapor pressure detn. of 2 model **fluorescent** whiteners is described and their use in a vacuum transfer printing process is described.

ST vapor pressure **fluorescent** whitener; transfer printing vacuum **fluorescent** whitener

IT Vapor pressure

(of **fluorescent** brighteners)
IT **Fluorescent** brighteners
(vapor pressure of, vacuum transfer printing in relation to)
IT Textile printing
(transfer, vacuum, with **fluorescent** brighteners, vapor pressure in relation to)
IT 2744-49-2 **24032-65-3**
RL: PROC (Process)
(vapor pressure detn. of)
IT **24032-65-3**
RL: PROC (Process)
(vapor pressure detn. of)
RN 24032-65-3 CAPLUS
CN Acetamide, N-[2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]ethyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 15 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1972:421588 CAPLUS
DN 77:21588
TI 1,5-Diaryl-3-styryl-.DELTA.2-pyrazolines as **fluorescent** whiteners
PA Farbwerke Hoechst A.-G.
SO Brit., 11 pp.
CODEN: BRXXAA
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI GB 1264671		19720223			<--
PRAI DD 1968-5801		19680419			

TI 1,5-Diaryl-3-styryl-.DELTA.2-pyrazolines as **fluorescent** whiteners
PI GB 1264671 **19720223**

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI GB 1264671		19720223			<--

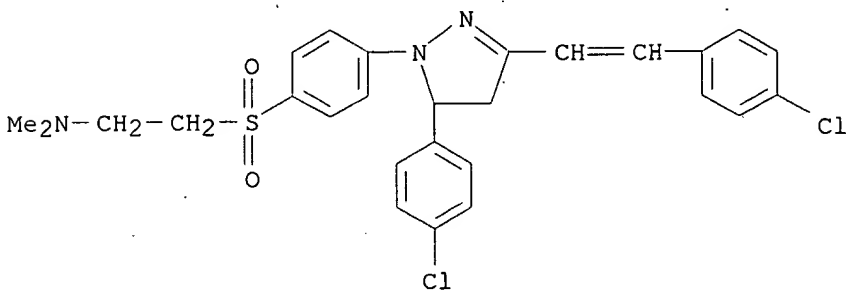
ST polyacrylonitrile **fluorescent** whitener; cellulose triacetate **fluorescent** whitener; nylon **fluorescent** whitener; sulfone **fluorescent** whitener; styrylpyrazoline **fluorescent** whitener; pyrazolines **fluorescent** whitener; vinylsulfonylpyrazolines deriv
IT **Fluorescent** brighteners
([(alkylsulfonyl)phenyl]phenylstyrylpyrazoline derivs., for synthetic fibers)
IT Acetate fibers
Acrylic fibers
Polyamide fibers
RL: USES (Uses)
(**fluorescent** brighteners for, [(alkylsulfonyl)phenyl]phenylstyrylpyrazoline derivs. as)

IT 26505-13-5P 27326-33-6P **29244-84-6P 29244-85-7P**
29244-86-8P 29244-87-9P 29244-88-0P **29244-89-1P**
29244-90-4P **29244-91-5P 29244-92-6P**
29244-93-7P 29244-95-9P 29244-96-0P 29244-97-1P
29244-98-2P 29244-99-3P 29245-00-9P 29737-01-7P **29737-02-8P**
29979-73-5P 31527-51-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

IT **29244-84-6P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 29244-84-6 CAPLUS

CN Ethanamine, 2-[[4-[5-(4-chlorophenyl)-3-[2-(4-chlorophenyl)ethenyl]-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L10 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1972:87172 CAPLUS

DN 76:87172

TI 1-[p-(Alkylsulfonyl)phenyl]-3-(6-alkyl-3,4-dichlorophenyl)-2-pyrazoline fluroscent whitening agents

IN Mengler, Helmut; Schinzel, Erich; Roesch, Guenter

PA Farbwerke Hoechst A.-G.

SO Ger. Offen., 24 pp.
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2011552	A	19711014	DE 1970-2011552	19700311 <--
	DE 2011552	B2	19790523		
	NL 7102967	A	19710914	NL 1971-2967	19710305 <--
	NL 163212	B	19800317		
	NL 163212	C	19800815		
	ES 388953	A1	19750316	ES 1971-388953	19710305 <--
	ZA 7101514	A	19720426	ZA 1971-1514	19710308 <--
	AT 315803	B	19740610	AT 1971-2020	19710309 <--
	CH 713437	A4	19740715	CH 1971-3437	19710309 <--
	CH 559273	B	19750228		
	CH 569755	A	19751128	CH 1974-10516	19710309 <--
	JP 56032313	B4	19810727	JP 1971-12242	19710309 <--
	NO 131596	B	19750317	NO 1971-910	19710310 <--
	CA 971959	A1	19750729	CA 1971-107343	19710310 <--
	SE 378105	B	19750818	SE 1971-3040	19710310 <--
	BE 764127	A1	19710913	BE 1971-100796	19710311 <--
	FR 2084476	A5	19711217	FR 1971-8465	19710311 <--
	HU 162981	P	19730528	HU 1971-HO1356	19710311 <--

	CS 152391	P	19731219	CS 1971-1790	19710311 <--
	SU 439991	D	19740815	SU 1971-1629402	19710311 <--
	PL 83038	P	19751231	PL 1971-146795	19710311 <--
	RO 61307	P	19760915	RO 1971-66231	19710311 <--
	GB 1360490	A	19740717	GB 1971-23815	19710419 <--
	JP 56138173	A2	19811028	JP 1981-28523	19810302 <--
	JP 59001750	B4	19840113		
PRAI	DE 1970-2011552		19700311		

PI DE 2011552 **19711014**

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	DE 2011552	A	19711014	DE 1970-2011552	19700311	<--
	DE 2011552	B2	19790523			
	NL 7102967	A	19710914	NL 1971-2967	19710305	<--
	NL 163212	B	19800317			
	NL 163212	C	19800815			
	ES 388953	A1	19750316	ES 1971-388953	19710305	<--
	ZA 7101514	A	19720426	ZA 1971-1514	19710308	<--
	AT 315803	B	19740610	AT 1971-2020	19710309	<--
	CH 713437	A4	19740715	CH 1971-3437	19710309	<--
	CH 559273	B	19750228			
	CH 569755	A	19751128	CH 1974-10516	19710309	<--
	JP 56032313	B4	19810727	JP 1971-12242	19710309	<--
	NO 131596	B	19750317	NO 1971-910	19710310	<--
	CA 971959	A1	19750729	CA 1971-107343	19710310	<--
	SE 378105	B	19750818	SE 1971-3040	19710310	<--
	BE 764127	A1	19710913	BE 1971-100796	19710311	<--
	FR 2084476	A5	19711217	FR 1971-8465	19710311	<--
	HU 162981	P	19730528	HU 1971-HO1356	19710311	<--
	CS 152391	P	19731219	CS 1971-1790	19710311	<--
	SU 439991	D	19740815	SU 1971-1629402	19710311	<--
	PL 83038	P	19751231	PL 1971-146795	19710311	<--
	RO 61307	P	19760915	RO 1971-66231	19710311	<--
	GB 1360490	A	19740717	GB 1971-23815	19710419	<--
	JP 56138173	A2	19811028	JP 1981-28523	19810302	<--
	JP 59001750	B4	19840113			

AB . . . = OSO3Na, OAc, OCHMeCH2NMe2, OCH2CH2NMe2, NHAc, NMeAc, OEt, OBu) were prepd. from I (R1 = CH2CH2OH). I were used as **fluorescent** whiteners for nylon 6, polyacrylonitrile or 1:1 nylon 66-polyurethane textiles. Thus, 3,4,6-Cl2MeC6H2COCH2CH2Cl, prepd. from 3,4-Cl2C6H3Me and ClCOCH2CH2Cl in the presence. . .

ST pyrazoline **fluorescent** whitener; nylon **fluorescent** whitener; polyacrylonitrile **fluorescent** whitener

IT **Fluorescent** brighteners
((dichlorophenyl)phenylpyrazoline derivs., for synthetic fibers)

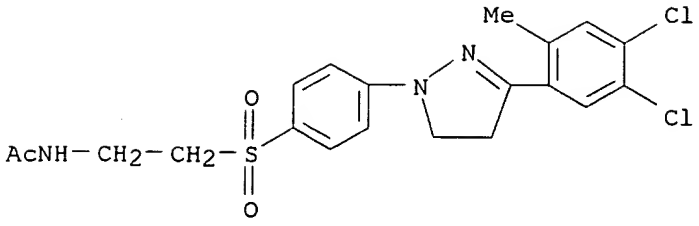
IT Acrylic fibers
Polyamide fibers
Spandex fibers
RL: USES (Uses)
(**fluorescent** brighteners for, (dichlorophenyl)phenylpyrazoline derivs.)

IT 35441-12-4P 35441-13-5P 35441-14-6P 35441-15-7P 35441-16-8P
35441-17-9P 35441-18-0P **35441-19-1P** 35441-20-4P
35441-21-5P 35441-22-6P 35441-23-7P 35441-24-8P **35507-85-8P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

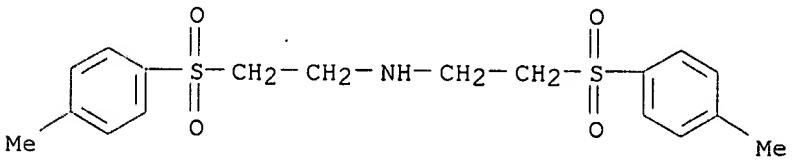
IT **35441-19-1P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 35441-19-1 CAPLUS

CN Acetamide, N-[2-[[4-[3-(4,5-dichloro-2-methylphenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]ethyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1972:87030 CAPLUS
DN 76:87030
TI Reaction between reactive dyes and urea during dyeing of wool
AU Swanepoel, O. A.
CS Counc. Sci. Ind. Res., S. Afr. Wool Text. Res. Inst., Port Elizabeth, S. Afr.
SO Applied Polymer Symposia (**1971**), No. 18(Pt. 1), 473-83
CODEN: APPSBX; ISSN: 0570-4898
DT Journal
LA English
SO Applied Polymer Symposia (**1971**), No. 18(Pt. 1), 473-83
CODEN: APPSBX; ISSN: 0570-4898
AB Isolation and identification of several derivs. [e.g., N,N'-bis[2-(p-tolylsulfonyl)ethyl]urea [**34087-15-5**] and N-p-tolyl-3-ureidopropionamide [34087-16-6]] formed by the reaction of urea [57-13-6] with model compds. show that covalent bonds can be formed between urea and the typical reactive groups in fiber-reactive dyes. Reaction of com. fiber-reactive dyes wih solns. contg. 14C-**labeled** urea lead, in some cases (e.g., Remazolan Golden Yellow G, Premazin Red P 3B) to the formation of radioactive dye. . .
IT 5663-01-4P **35777-35-6P** 35942-70-2P
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in urea reaction with model compds. for reactive dyes)
IT **34087-15-5P** 34087-16-6P
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in urea reaction with reactive dyes)
IT **35777-35-6P**
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in urea reaction with model compds. for reactive dyes)
RN 35777-35-6 CAPLUS
CN Ethanamine, 2-[(4-methylphenyl)sulfonyl]-N-[2-[(4-methylphenyl)sulfonyl]ethyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1971:100614 CAPLUS
DN 74:100614
TI 1-(Alkylsulfonylphenyl)-5-phenyl-3-styryl-2-pyrazolines as **fluorescent** whitening agents

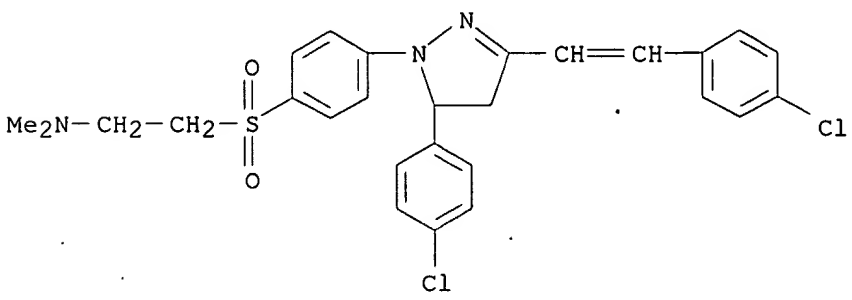
IN Mengler, Helmut; Roesch, Guenter; Schinzel, Erich; Smerz, Otto
PA Farbwerke Hoechst A.-G.
SO Ger. Offen., 25 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 1923702	A	19701119	DE 1969-1923702	19690509 <--
PRAI DE 1969-1923702		19690509		

TI 1-(Alkylsulfonylphenyl)-5-phenyl-3-styryl-2-pyrazolines as **fluorescent** whitening agents
PI DE 1923702 **19701119**

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 1923702	A	19701119	DE 1969-1923702	19690509 <--

AB . . . CH2CH2OH), dehydration to I (R1 = CH:-CH2), and addn. of active H compds. Mixts. of I and IV, used as **fluorescent** whitening agents for polyamide, polyacrylonitrile, and cellulose textiles, were more effective than the single compds. Thus, refluxing II (R =. . .
ST sulfonylphenyl styryl pyrazolines; **fluorescent** whitening agents styrylpyrazolines
IT Fiber, acrylic, uses and miscellaneous
RL: USES (Uses)
(**fluorescent** brightening agents for, phenylstyryl[(alkylsulfonyl)phenyl]pyrazoline derivs. as)
IT Nylon, uses and miscellaneous
RL: USES (Uses)
(**fluorescent** brightening agents for, phenylstyryl[alkyl(sulfonyl)phenyl]pyrazoline derivs. as)
IT **Fluorescent** brightening agents
(phenylstyryl[(alkylsulfonyl)phenyl]pyrazoline derivs., for synthetic fibers)
IT 26505-13-5P 27326-33-6P **29244-84-6P 29244-85-7P**
29244-86-8P 29244-87-9P 29244-88-0P **29244-89-1P**
29244-90-4P **29244-91-5P 29244-92-6P**
29244-93-7P 29244-95-9P 29244-96-0P 29244-97-1P
29244-98-2P 29244-99-3P 29245-00-9P 29737-01-7P **29737-02-8P**
31527-51-2P 31527-53-4P 31527-54-5P 31721-41-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)
IT **29244-84-6P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)
RN 29244-84-6 CAPLUS
CN Ethanamine, 2-[[4-[5-(4-chlorophenyl)-3-[2-(4-chlorophenyl)ethenyl]-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



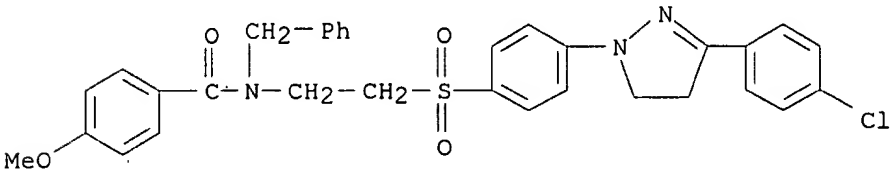
L10 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1970:521565 CAPLUS
DN 73:121565
TI 1-[4'-[.beta.-(Acylamino)ethylsulfonyl]phenyl]-3-aryl-2-pyrazolines, useful as **fluorescent** whiteners
IN Schinzel, Erich; Bildstein, Siegfried; Lebkucher, Karl H.
PA Farbwerke Hoechst A.-G.
SO U.S., 5 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3522242	A	19700728	US 1967-653323	19670714 <--
PRAI US 1967-653323		19670714		

TI 1-[4'-[.beta.-(Acylamino)ethylsulfonyl]phenyl]-3-aryl-2-pyrazolines, useful as **fluorescent** whiteners
PI US 3522242 **19700728**

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3522242	A	19700728	US 1967-653323	19670714 <--

ST pyrazolines **fluorescent** whiteners
IT **Fluorescent** brightening agents
([[[(acylamino)ethyl]sulfonyl]phenyl]phenylpyrazoline derivs.)
IT Fiber, acetate, uses and miscellaneous
Fiber, acrylic, uses and miscellaneous
RL: USES (Uses)
(**fluorescent** brightening agents for,
[[[(acylamino)ethyl]sulfonyl]phenyl]phenylpyrazoline derivs. as)
IT **22987-12-8P 24032-64-2P 24032-65-3P**
24032-66-4P 24032-67-5P 24032-68-6P
24032-69-7P 24032-70-0P 24032-71-1P
24032-72-2P 24032-73-3P 24032-75-5P
24032-76-6P 24032-77-7P 24032-78-8P
24032-79-9P 24032-80-2P 24032-81-3P
24032-82-4P 24033-77-0P 24033-78-1P
24033-79-2P 24067-87-6P 24100-43-4P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)
IT **22987-12-8P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)
RN 22987-12-8 CAPLUS
CN Benzamide, N-[2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]ethyl]-4-methoxy-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1970:510803 CAPLUS
DN 73:110803

TI **Fluorescent** whitening of polyamide or cellulose ester fibers
PA Farbwerke Hoechst A.-G.
SO Fr. Demande, 10 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2003125	A1	19691107	FR 1969-5635	19690303 <--
	FR 2003125	B1	19731116		
PRAI	FR 1969-5635		19690303		

TI **Fluorescent** whitening of polyamide or cellulose ester fibers
PI FR 2003125 **19691107**

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2003125	A1	19691107	FR 1969-5635	19690303 <--
	FR 2003125	B1	19731116		

ST polyamides **fluorescent** whitening; cellulose triacetate **fluorescent** whitening; nylon 66 **fluorescent** whitening; **fluorescent** whitening cellulose triacetate polyamides; polyalkylene glycols **fluorescent** whitening; oxyethylated fatty alcs **fluorescent** whitening; fatty alcs oxyethylated **fluorescent** whitening

IT **Fluorescent** brightening agents
(aromatic heterocyclic nitrogen compds., contg. oxyethylated fatty alc.-polyalkylene glycol compns.)

IT Alcohols, compounds
RL: USES (Uses)
(fatty, reaction products with ethylene oxide, fiber **fluorescent** whitening in presence of)

IT Nylon, uses and miscellaneous
RL: USES (Uses)
(**fluorescent** whitening of, in presence of oxyethylated fatty alc.-polyalkylene glycol compns.)

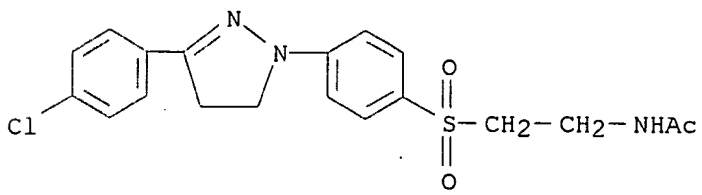
IT Fiber, acetate, uses and miscellaneous
RL: USES (Uses)
(triacetate, **fluorescent** whitening of, in presence of oxyethylated fatty alc.-polyalkylene glycol compns.)

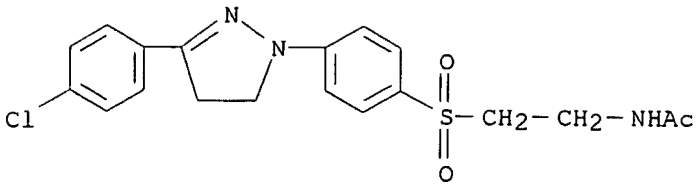
IT 3426-43-5 **24032-65-3** 27441-70-9
RL: USES (Uses)
(fiber **fluorescent** whitening by, in presence of oxyethylated fatty alc.-polyalkylene glycol compns.)

IT 25322-69-4
RL: USES (Uses)
(fiber **fluorescent** whitening in presence of)

IT **24032-65-3**
RL: USES (Uses)
(fiber **fluorescent** whitening by, in presence of oxyethylated fatty alc.-polyalkylene glycol compns.)

RN 24032-65-3 CAPLUS
CN Acetamide, N-[2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]ethyl]- (9CI) (CA INDEX NAME)





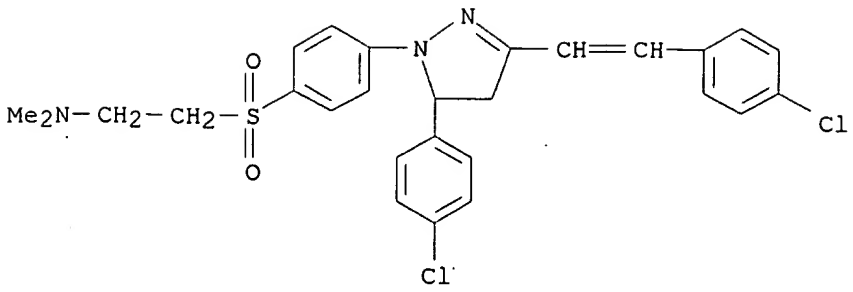
L10 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1970:478560 CAPLUS
DN 73:78560
TI Styrylpyrazolines as **fluorescent** whitening agents
PA Farbwerke Hoechst A.-G.
SO Fr. Demande, 18 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2006587	A5	19691226	FR 1969-12412	19690421 <--
PRAI	CH 1968-5801	A	19680419		

TI Styrylpyrazolines as **fluorescent** whitening agents
PI FR 2006587 **19691226**

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2006587	A5	19691226	FR 1969-12412	19690421 <--

ST styryl pyrazolines **fluorescent** whiteners; pyrazolines styryl **fluorescent** whiteners; pyrazolines styryl **fluorescent** whiteners
IT **Fluorescent** brightening agents
([(alkylsulfonyl)phenyl]phenylstyrylpyrazoline derivs.)
IT Fiber, acetate, uses and miscellaneous
Fiber, acrylic, uses and miscellaneous
Nylon, uses and miscellaneous
RL: USES (Uses)
(**fluorescent** brightening agents for, [(alkylsulfonyl)phenyl]phenylstyrylpyrazoline derivs. as)
IT 26505-13-5P 27326-33-6P **29244-84-6P 29244-85-7P**
29244-86-8P 29244-87-9P 29244-88-0P **29244-89-1P**
29244-90-4P **29244-91-5P 29244-92-6P**
29244-93-7P 29244-95-9P 29244-96-0P 29244-97-1P
29244-98-2P 29244-99-3P 29245-00-9P 29737-01-7P **29737-02-8P**
29979-73-5P 31527-51-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)
IT **29244-84-6P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)
RN 29244-84-6 CAPLUS
CN Ethanamine, 2-[[4-[5-(4-chlorophenyl)-3-[2-(4-chlorophenyl)ethenyl]-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



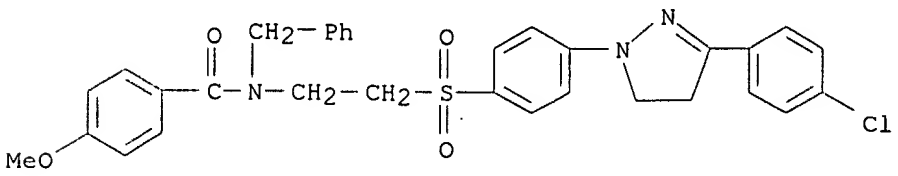
L10 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2003 ACS
AN 1969:492666 CAPLUS
DN 71:92666
TI Pyrazoline derivatives as whitening agents
PA Farbwerke Hoechst A.-G.
SO Fr., 7 pp.
CODEN: FRXXAK
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	FR 1535821		19680809			<--
PRAI	DE		19660728			

PI FR 1535821 **19680809**

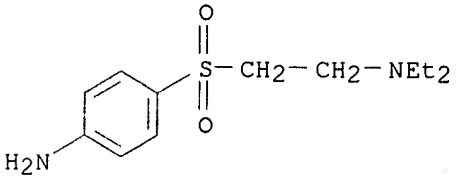
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	FR 1535821		19680809			<--

IT **Fluorescent** brightening agents
([(ethylsulfonyl)phenyl]phenylpyrazoline derivs.)
IT **22987-12-8P 24032-64-2P 24032-65-3P**
24032-66-4P 24032-67-5P 24032-68-6P
24032-69-7P 24032-70-0P 24032-71-1P
24032-72-2P 24032-73-3P 24032-75-5P
24032-76-6P 24032-77-7P 24032-78-8P
24032-79-9P 24032-80-2P 24032-81-3P
24032-82-4P 24033-77-0P 24033-78-1P
24033-79-2P 24067-87-6P 24100-43-4P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)
IT **22987-12-8P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)
RN 22987-12-8 CAPLUS
CN Benzamide, N-[2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]ethyl]-4-methoxy-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1953:1275 CAPLUS
DN 47:1275
OREF 47:215a-c
TI The prevention of encephalitis due to the viruses of eastern equine encephalomyelitis and louping-ill. Experiments with trypan red, mepacrine, and many other substances
AU Hurst, E. Weston; Melvin, P.; Peters, J. M.
CS Imperial Chem. Inds., Ltd., Manchester, UK
SO Brit. J. Pharmacol. (**1952**), 7, 455-72
DT Journal
LA Unavailable
SO Brit. J. Pharmacol. (**1952**), 7, 455-72
IT Bleaching agents
(**fluorescent** or optical, in encephalitis prevention)
IT 129-46-4, Bayer 205 140-64-7, Benzamidine, 4,4'-(pentamethylenedioxy)di-, diisethionate 992-59-6, Benzopurpurin 4B 1324-53-4, Carbolan Blue B 3270-78-8, Antrycide 6334-01-6, Aniline, p-(ethylsulfonyl)- 25085-03-4, Acrylamide, polymer with methacrylic acid **25442-63-1**, Aniline, p-(2-diethylaminoethylsulfonyl)-
(in encephalitis prevention)
IT **25442-63-1**, Aniline, p-(2-diethylaminoethylsulfonyl)-
(in encephalitis prevention)
RN 25442-63-1 CAPLUS
CN Benzenamine, 4-[[2-(diethylamino)ethyl]sulfonyl]- (9CI) (CA INDEX NAME)



=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	127.89	277.89
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-9.77	-9.77

FILE 'STNGUIDE' ENTERED AT 08:43:35 ON 18 APR 2003